## Distributed Systems

COMP90015 2017 Semester 1 Tutorial 08

## Questions for today

- 1. What is a domain transition and how many domain transitions are required for an RPC/RMI call from one process to another on the same host?
- Compare the worker pool multi-threading architecture with the thread-per-request architecture.
- 3. What is process migration and explain two circumstances that can prohibit or make it difficult for process migration to take place?
- 4. Why is shared memory faster than message passing when communicating between processes on the same host? State a reason why shared memory is not preferable when communicating between processes on the same host.

## Questions for today

- 5. What is the difference between a static process location policy and a dynamic process location policy?
- In the context of load-sharing systems, explain each of the centralized, hierarchical and decentralized designs.
- 7. What is the difference between sender-initiated load-sharing and receiver-initiated load-sharing? Under what circumstances is sender-initiated more efficient than receiver-initiated?
- 8. Give two reasons why a monolithic kernel is sometimes more efficient than a micro kernel. Give three reasons why a micro kernel is preferable to a monolithic kernel.